OBLON, SPIVAK, ET AL DOCKET #:202308US-2X INV: Hiroshi KITADA, et al. SHEET 1_OF_18_

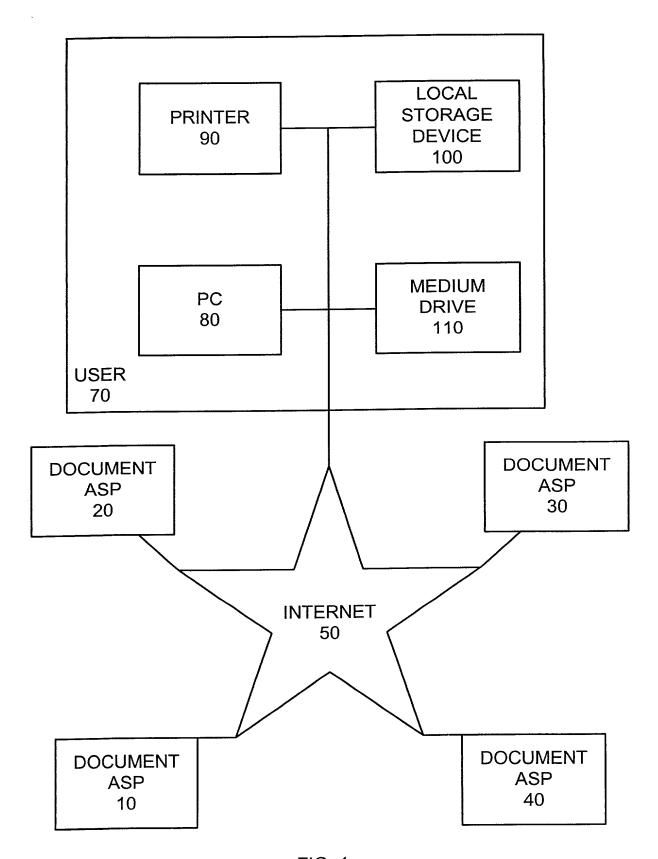


FIG. 1 PRIOR ART

OBLON, SPIVAK, ET AL **DOCKET #:202308US-2X** INV: Hiroshi KITADA, et al. SHEET 2 OF 18 **USER 74 USER 72 NETWORK/** INTERNET 55 **USER 76** USER 70 DOCUMENT MANAGER 60 **DOCUMENT DOCUMENT** ASP **ASP** 30 20 **NETWORK/** INTERNET 50 **DOCUMENT** DOCUMENT **ASP**

FIG. 2

40

W. March Sharey March 18 14 Hood

ASP

10

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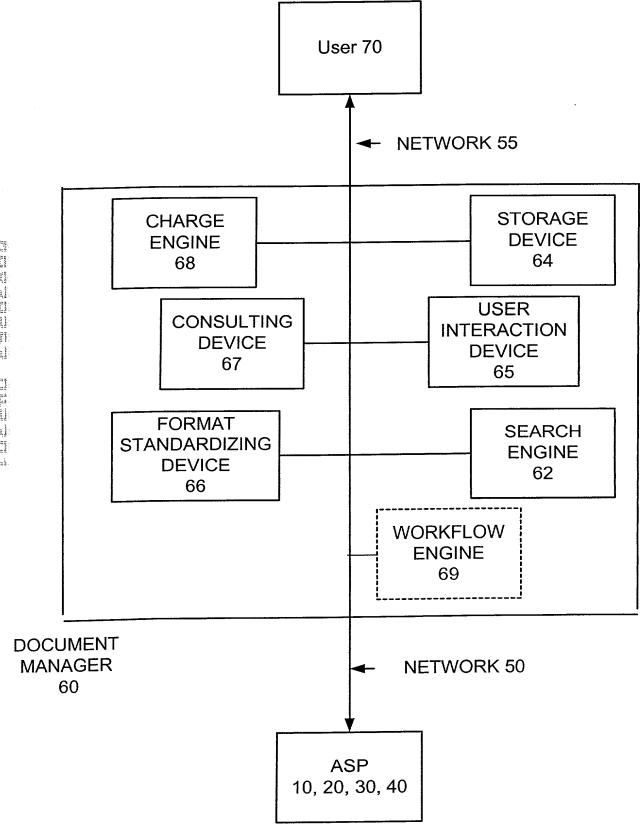


FIG. 3

OBLON, SPIVAK, ET AL DOCKET #:202308US-2X INV: Hiroshi KITADA, et al. SHEET 4_OF_18_

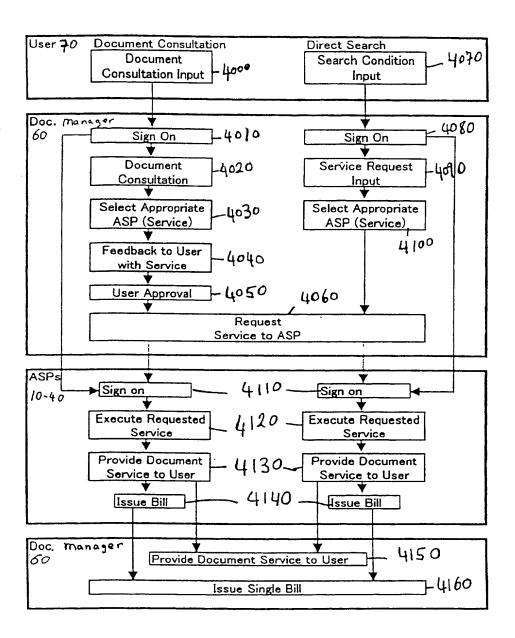


FIG.4

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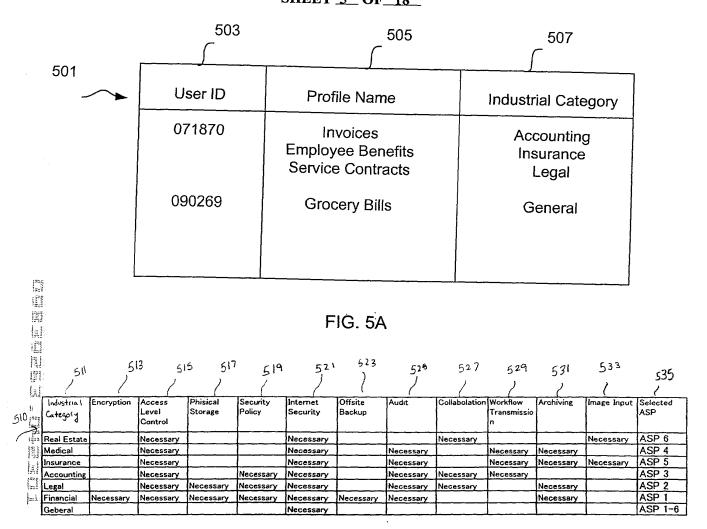


FIG. 5B

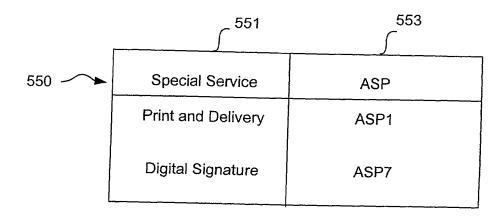
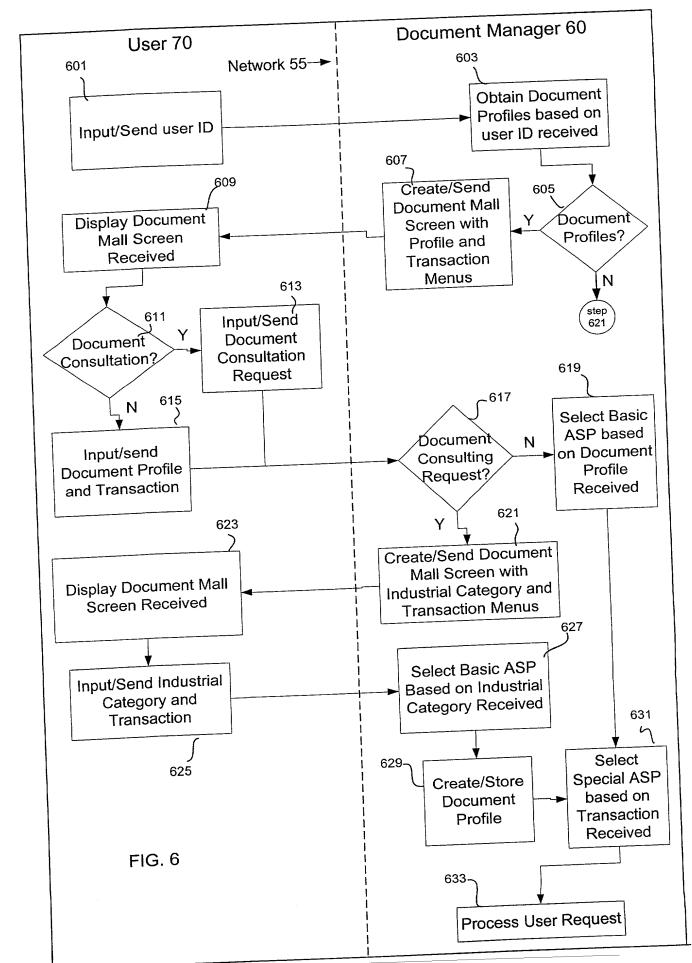


FIG. 5C

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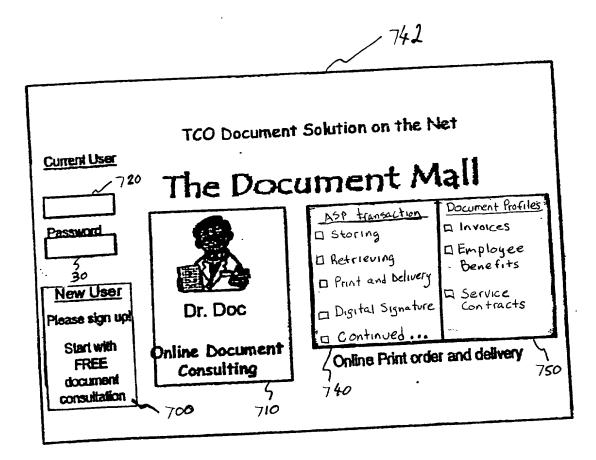


FIG. 7A

OBLON, SPIVAK, ET AL DOCKET #:202308US-2X INV: Hiroshi KITADA, et al. SHEET 8_OF_18_

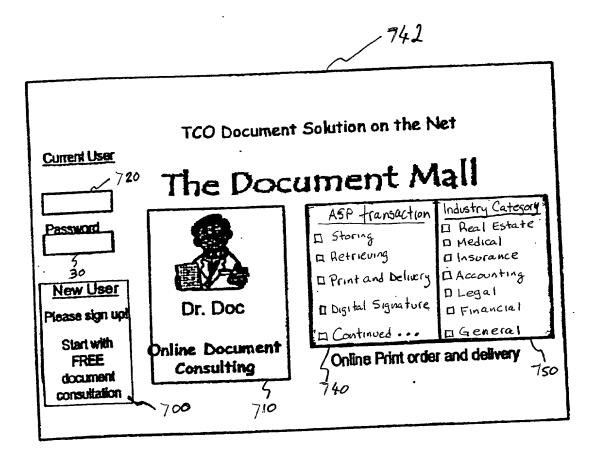
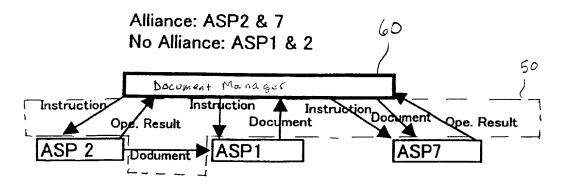


FIG. 7B

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F16. 8

OBLON, SPIVAK, ET AL DOCKET #:202308US-2X INV: Hiroshi KITADA, et al. SHEET 10_ OF_18_

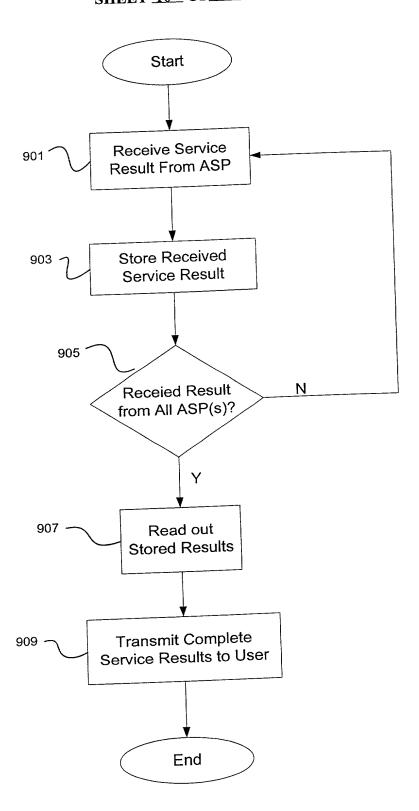
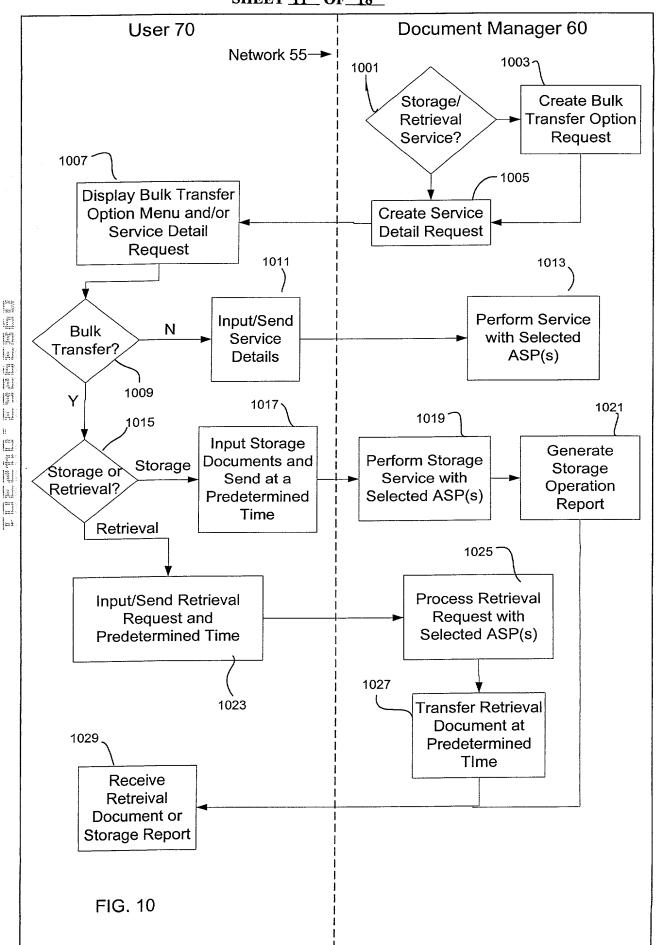


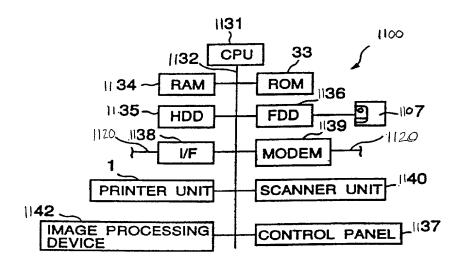
FIG. 9

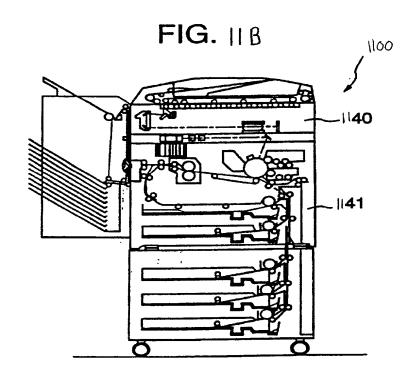
OBLON, SPIVAK, ET AL DOCKET #:202308US-2X INV: Hiroshi KITADA, et al. SHEET 11_OF_18_



OBLON, SPIVAK, ET AL DOCKET #:202308US-2X INV: Hiroshi KITADA, et al. SHEET 12_OF_18_

FIG. IIA





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1153 START, 1152 O DEMNETOP 9 <u>=</u> 5 8 1151 1156 1144 1146 1146 1147 σ

Fig. 11C

OBLON, SPIVAK, ET AL DOCKET #:202308US-2X INV: Hiroshi KITADA, et al. SHEET 14 OF 18

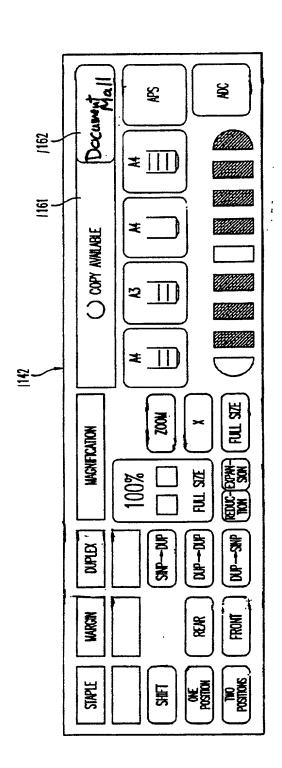
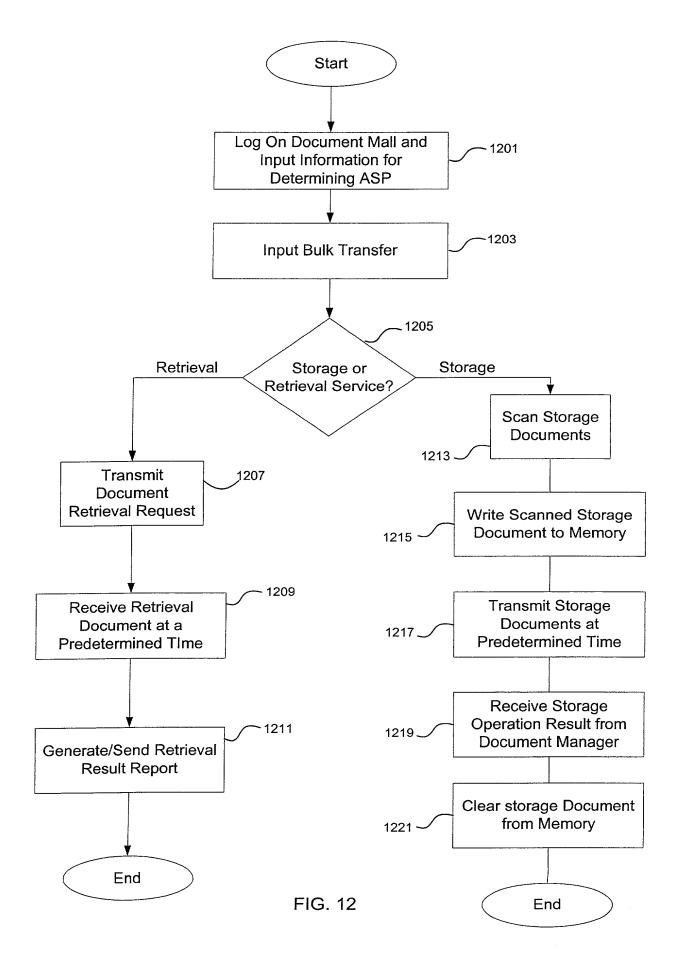


FIG. III

OBLON, SPIVAK, ET AL DOCKET #:202308US-2X INV: Hiroshi KITADA, et al. SHEET 15_ OF_18_



INV: Hiroshi KITADA, et al. SHEET 16 OF 18 Start Log User On Document Mall 1301 and Determining ASP 1303 Receive Bulk Transfer Request 1305 Storage Storage or Retrieval Retrieval Service? Receive Retrieval Request and Obtain Requested Document Receive Storage from Selected Retrieval 1313 Document at **ASP** 1307 Predetermined Time 1315 Store Retrieved **Document in Memory** Store Document at Transmit Retrieved 1317 Storage ASP Documents at 1309 Predetermined Time 1319 Receive Operation Result Send Storage Result from User Report 1311-1321 Clear Stored Document from Memory End FIG. 13 End

OBLON, SPIVAK, ET AL DOCKET #:202308US-2X

INV: Hiroshi KITADA, et al. SHEET <u>17</u> OF <u>18</u> Start 1401 Receive Service Request with User ID and AccessLevel 1403 Retrieval Storage Storage or Retrieval Service? Receive storage 1411 Document 1405 Receive Document Retrieval Request Writ Storage Document 1413 to Memory **Transmit Operation** 1407 Retrieve Document Result to Document Requested 1415 -Manager Send Retrieved End 1409 Document to Document Manager FIG. 14 End

OBLON, SPIVAK, ET AL DOCKET #:202308US-2X

OBLON, SPIVAK, ET AL DOCKET #:202308US-2X INV: Hiroshi KITADA, et al. SHEET <u>18</u> OF <u>18</u>

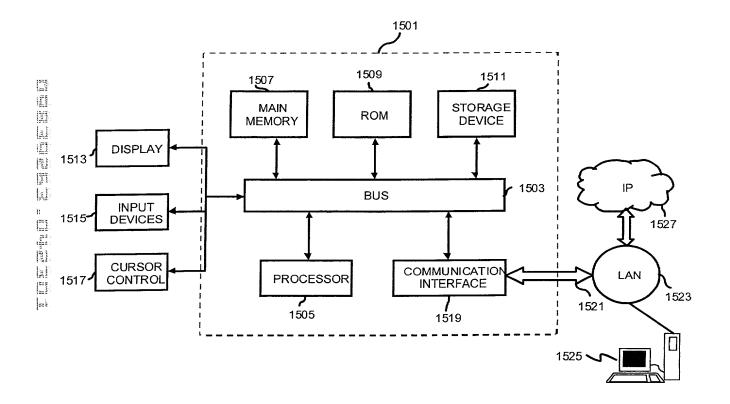


FIG. 15